

SFQ ID NO.1FIG.1 a

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC
 TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT
 CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTTCATGGAGGGCAAC
 TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTTATTTATGCACAGGGTGAACAAG
 ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC
 M D Y Q V S S P I Y D I N Y Y T S E P C
 CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG
 Q K I N V K Q I A A R L L P P L Y S L V
 TTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG
 F I F G F V G N M L V I L I L I N C K R
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT
 L K S M T D I Y L L N L A I S D L F F L
 CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG
 L T V P F W A H Y A A A Q W D F G N T M
 TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC
 C Q L L T G L Y F I G F F S G I F F I I
 CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG
 L L T I D R Y L A V V H A V F A L K A R
 ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT
 T V T F G V V T S V I T W V V A V F A S
 CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT
 L P G I I F T R S Q K E G L H Y T C S S
 CATTTTCCATACA
 H F P Y

59(UPPER:SEQ ID NO.1)
 19(LOWER:SEQ ID NO.1)

119
 39

179
 59

239
 79

299
 99

359
 119

419
 139

479
 159

539
 179

599
 199

659
 219

719
 239

779
 259

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(UPPER:SER 1) NO:
	19(LOWER:SER 1) NO:
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTATTTATGCACAGGGTGGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATC	839
H F P Y S Q Y Q F W K N F Q T L K I V I	279

SEQ ID NO.2 FIG.1b

TTGGGGCTGGTCCTGCCGCTGCTTGTCATGGTCATCTGCTACTCGGGAATCCTAAAAACT	899
L G L V L P L L V M V I C Y S G I L K T	299
CTGCTTCGGTGTTCGAAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTTATCTTCACCATC	959
L L R C R N E K K R H R A V R L I F T I	319
ATGATTGTTTATTTTCTCTTCTGGGCTCCCTACAACATTGTCCTTCTCCTGAACACCTTC	1019
M I V Y F L F W A P Y N I V L L L N T F	339
CAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAG	1079
Q E F F G L N N C S S S N R L D Q A M Q	359
GTGACAGAGACTCTTGGGATGACGCACTGCTGCATCAACCCCATCATCTATGCCTTTGTC	1139
V T E T L G M T H C C I N P I I Y A F V	379
GGGGAGAAGTTCAGAAACTACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTC	1199
G E K F R N Y L L V F F Q K H I A K R F	399
TGCAAATGCTGTTCTATTTTCCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTTACACC	1259
C K C C S I F Q Q E A P E R A S S V Y T	419
CGATCCACTGGGGAGCAGGAAATATCTGTGGGCTTGTGACACGGACTCAAGTGGGCTGGT	1319
R S T G E Q E I S V G L *	439
GACCCAGTCAGAGTTGTGCACATGGCTTAGTTTTCATACACAGCCTGGGCTGGGGGTNGG	1379
	459
TTGGNNGAGGTCTTTTTTAAAAGGAAGTTACTGTTATAGAGGGTCTAAGATTCATCCATT	1439
	479
TATTTGGCATCTGTTTAAAGTAGATTAGATCCGAATTC	

SEQ ID NO.2 (SUITE)

FIG.1c

GAATTCCTCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59 UPPER: SEQ ID 1
	19 LOWER: SEQ ID 1
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTTATTTATGCACAGGGTGGAAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGCG	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCCGCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTTCATCTTTGGTTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACATTAAAGATAGTCATCTTGGGGCTGGTCCTGCCGCTGCTTGTCATGGT	839
H F P Y I K D S H L G A G P A A A C H G	279

SEQ ID NO.3FIG.1d

CATCTGCTACTCGGGAATCCTAAAACTCTGCTTCGGTGTGCGAAATGAGAAAGAAGAGGCA	899
H L L L G N P K N S A S V S K *	299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTTATTTTCTCTTCTGGGCTCCCTA	959
	319
CAACATTGTCCTTCTCCTGAACACCTTCCAGGAATTCTTTGGCCTGAATAATTGCAGTAG	1019
	339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACTGCTG	1079
	359
CATCAACCCCATCATCTATGCCTTTGTGCGGGGAGAAGTTCAGAACTACCTCTTAGTCTT	1139
	379
CTTCCAAAAGCACATTGCCAAACGCTTCTGCAAATGCTGTTCTATTTTCCAGCAAGAGGC	1199
	399
TCCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGG	1259
	419
CTTGTGACACGGACTCAAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319
	439
TTCATACACAGCCTGGGCTGGGGGTNGGTTGGNNGAGGTCTTTTTTAAAAGGAAGTTACT	1379
	459
GTTATAGAGGGTCTAAGATTCATCCATTTATTTGGCATCTGTTTAAAGTAGATTAGATCC	1439
	479
GAATTC	

SEQ ID NO.3 (SUITE)

FIG.1e

FIG. 2

CCR5 hcc-R2b hcc-R3 hcc-R1 hcc-R4	I		II	
	1	1	1	1
	MLSTSRSRFTNNINNESGEEVTTFTFYDYGAPCHNKTWKQI	MLSTSRSRFTNNINNESGEEVTTFTFYDYGAPCHNKTWKQI	MLSTSRSRFTNNINNESGEEVTTFTFYDYGAPCHNKTWKQI	MLSTSRSRFTNNINNESGEEVTTFTFYDYGAPCHNKTWKQI
	MTTSTITVETFGTTSYDDVGLIENADTPRALMAQEVPPPLYSLVETVGLI	MTTSTITVETFGTTSYDDVGLIENADTPRALMAQEVPPPLYSLVETVGLI	MTTSTITVETFGTTSYDDVGLIENADTPRALMAQEVPPPLYSLVETVGLI	MTTSTITVETFGTTSYDDVGLIENADTPRALMAQEVPPPLYSLVETVGLI
	METPNTTDDYDTTTEFTGDAIPCCQVNNERAFCAQGLPPPLYSIVFVJG	METPNTTDDYDTTTEFTGDAIPCCQVNNERAFCAQGLPPPLYSIVFVJG	METPNTTDDYDTTTEFTGDAIPCCQVNNERAFCAQGLPPPLYSIVFVJG	METPNTTDDYDTTTEFTGDAIPCCQVNNERAFCAQGLPPPLYSIVFVJG
CCR5 hcc-R2b hcc-R3 hcc-R1 hcc-R4	II		III	
	1	1	1	1
	MNPTDIADTTLDESISYNNYLYESIPKPKKEGIAFGELELPPPLYSLVN	MNPTDIADTTLDESISYNNYLYESIPKPKKEGIAFGELELPPPLYSLVN	MNPTDIADTTLDESISYNNYLYESIPKPKKEGIAFGELELPPPLYSLVN	MNPTDIADTTLDESISYNNYLYESIPKPKKEGIAFGELELPPPLYSLVN
	IV	IV	IV	IV
	1	1	1	1
CCR5 hcc-R2b hcc-R3 hcc-R1 hcc-R4	V		VI	
	1	1	1	1
	VTCIIPFPYSQYQFMKNEQTLKIVLIGLVLPLLVVICYSGLIKTLRCRNEK	VTCIIPFPYSQYQFMKNEQTLKIVLIGLVLPLLVVICYSGLIKTLRCRNEK	VTCIIPFPYSQYQFMKNEQTLKIVLIGLVLPLLVVICYSGLIKTLRCRNEK	VTCIIPFPYSQYQFMKNEQTLKIVLIGLVLPLLVVICYSGLIKTLRCRNEK
	VI	VI	VI	VI
	1	1	1	1
CCR5 hcc-R2b hcc-R3 hcc-R1 hcc-R4	VII		VIII	
	1	1	1	1
	SEENHIDQAMQVTEITLGMTICCINPIIYAEVGEKERNYILVFECKHIAKR	SEENHIDQAMQVTEITLGMTICCINPIIYAEVGEKERNYILVFECKHIAKR	SEENHIDQAMQVTEITLGMTICCINPIIYAEVGEKERNYILVFECKHIAKR	SEENHIDQAMQVTEITLGMTICCINPIIYAEVGEKERNYILVFECKHIAKR
	VII	VII	VII	VII
	1	1	1	1

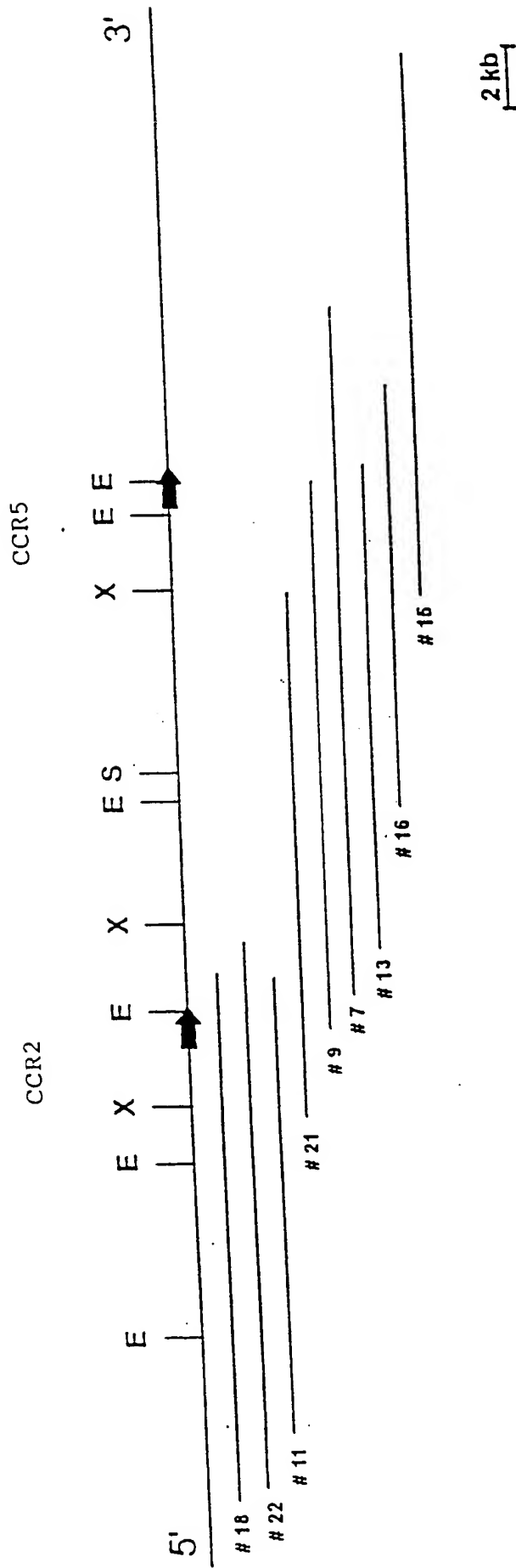


FIG. 3

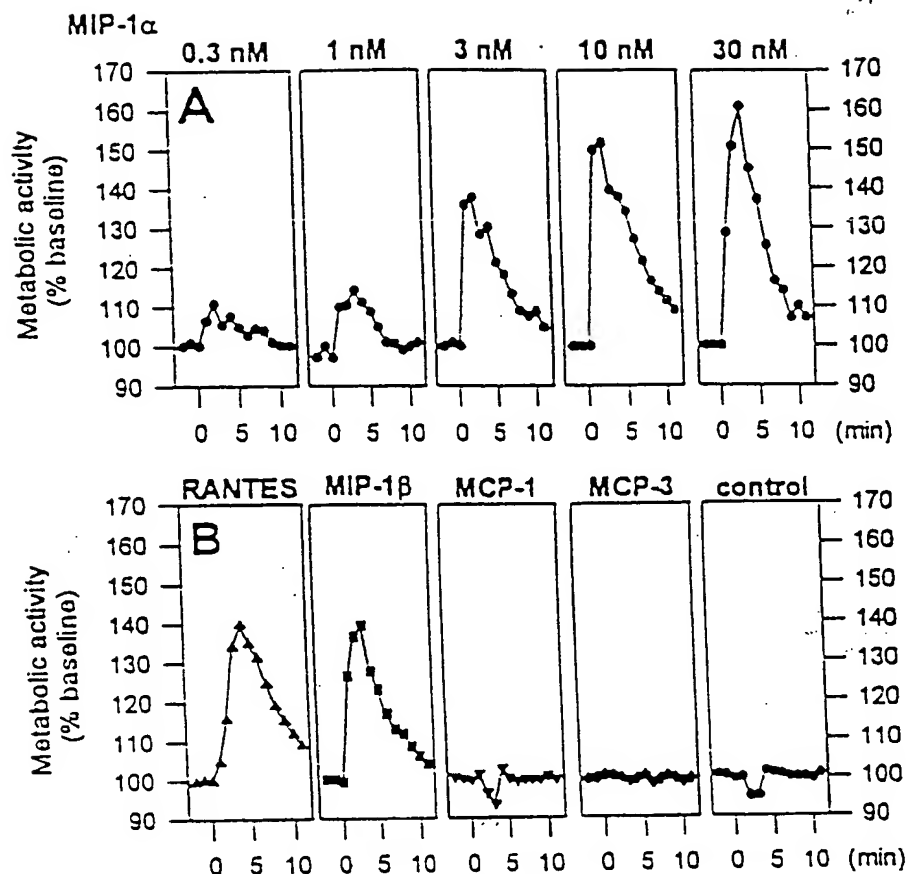


FIG. 4a

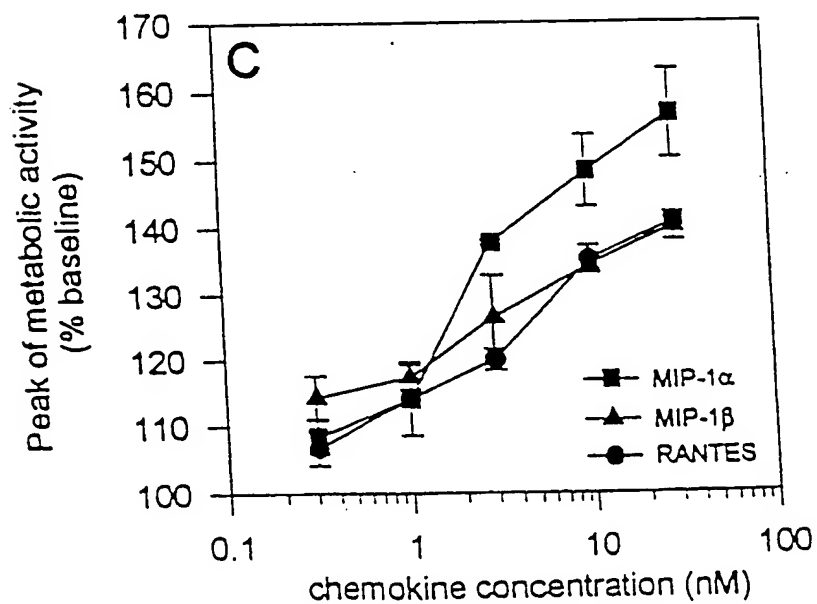


FIG. 4b

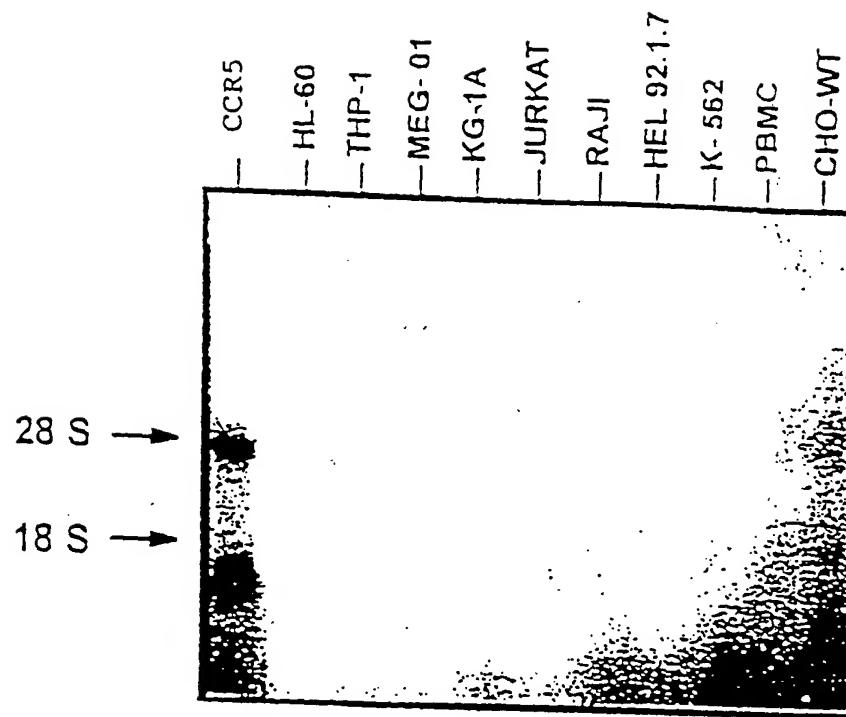


FIG. 5

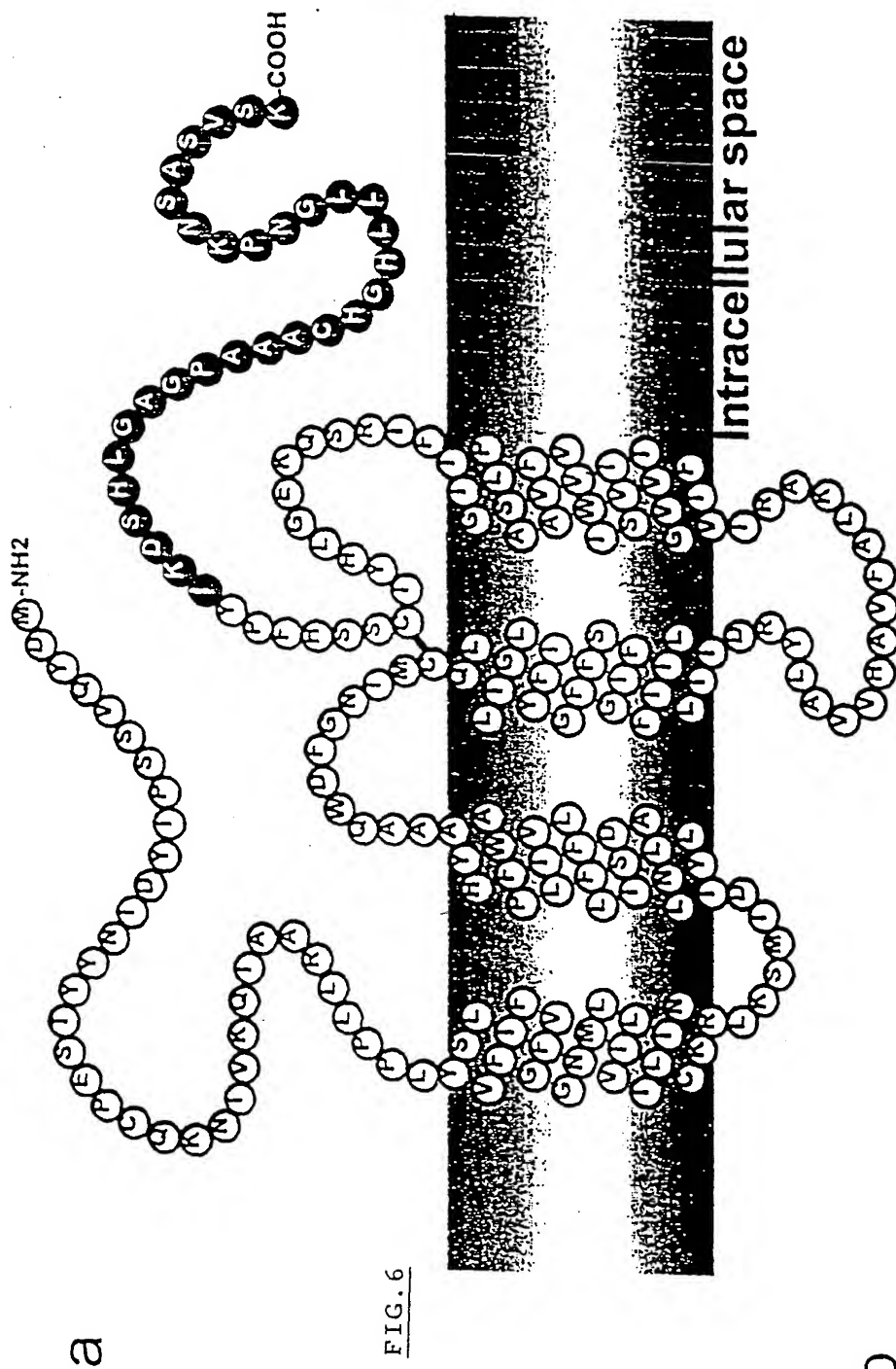
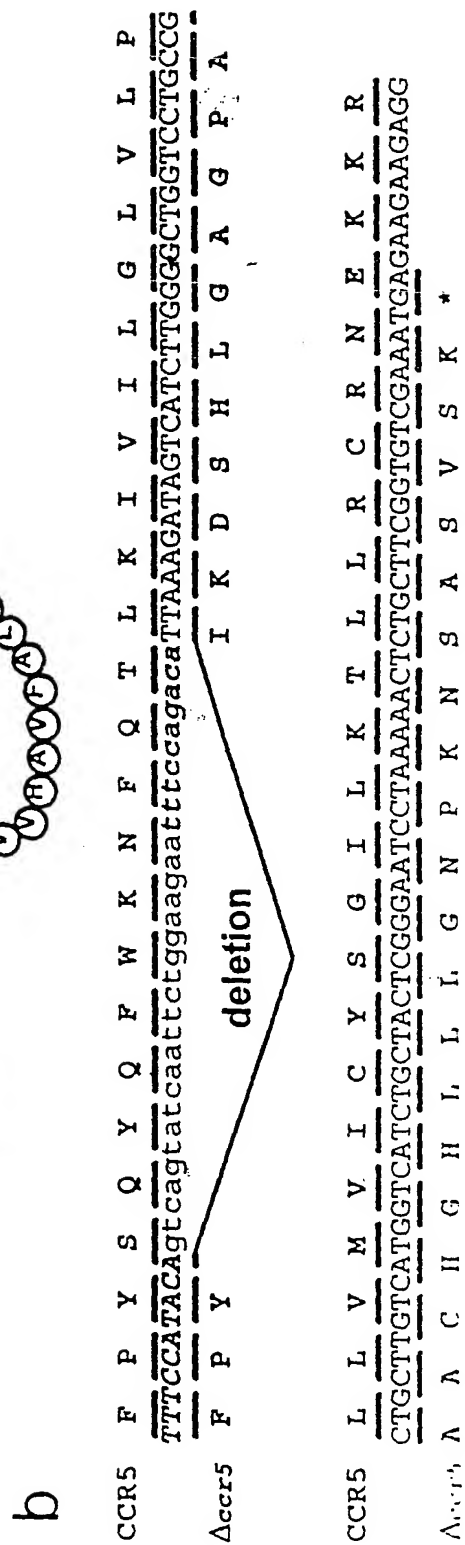
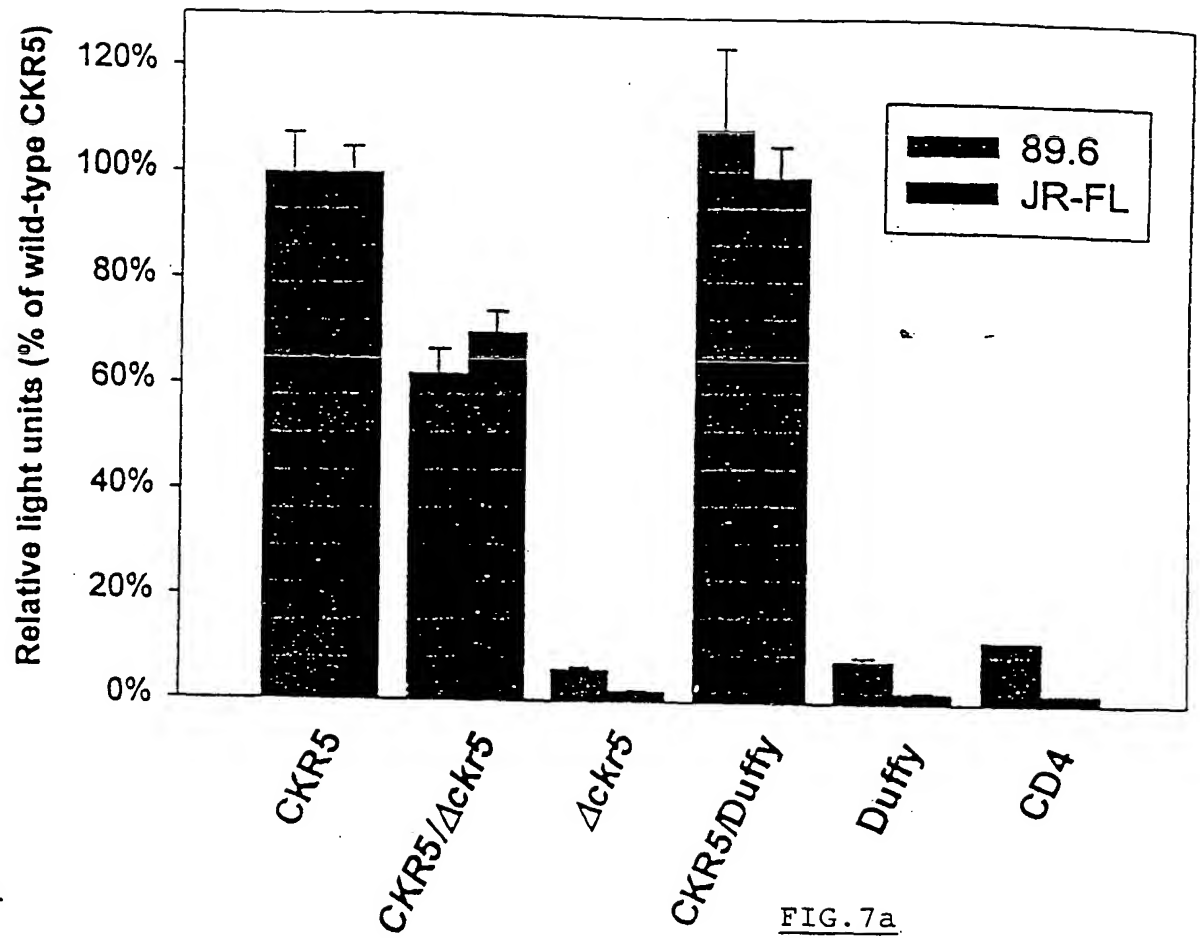


FIG. 6



A.



B.

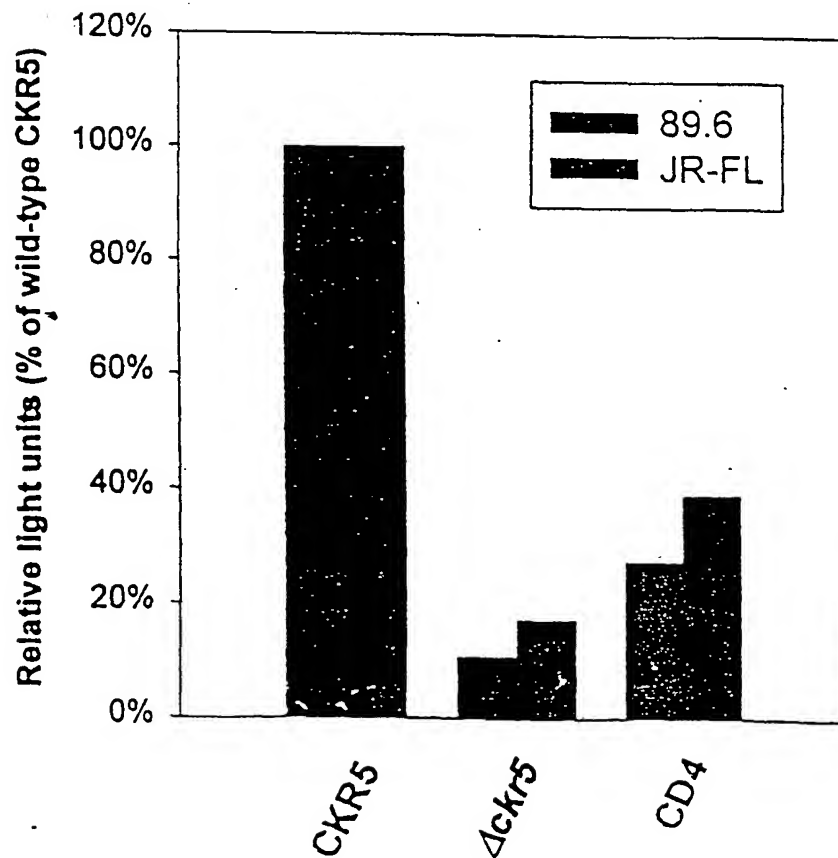


FIG. 7a

FIG. 7b

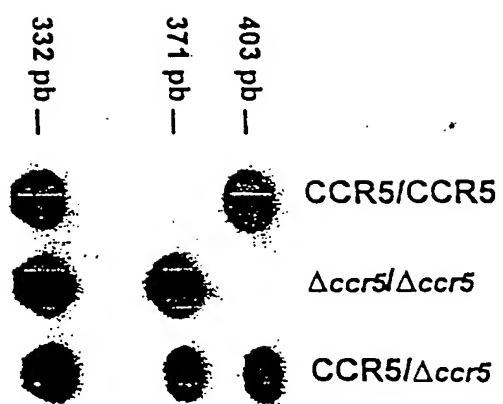
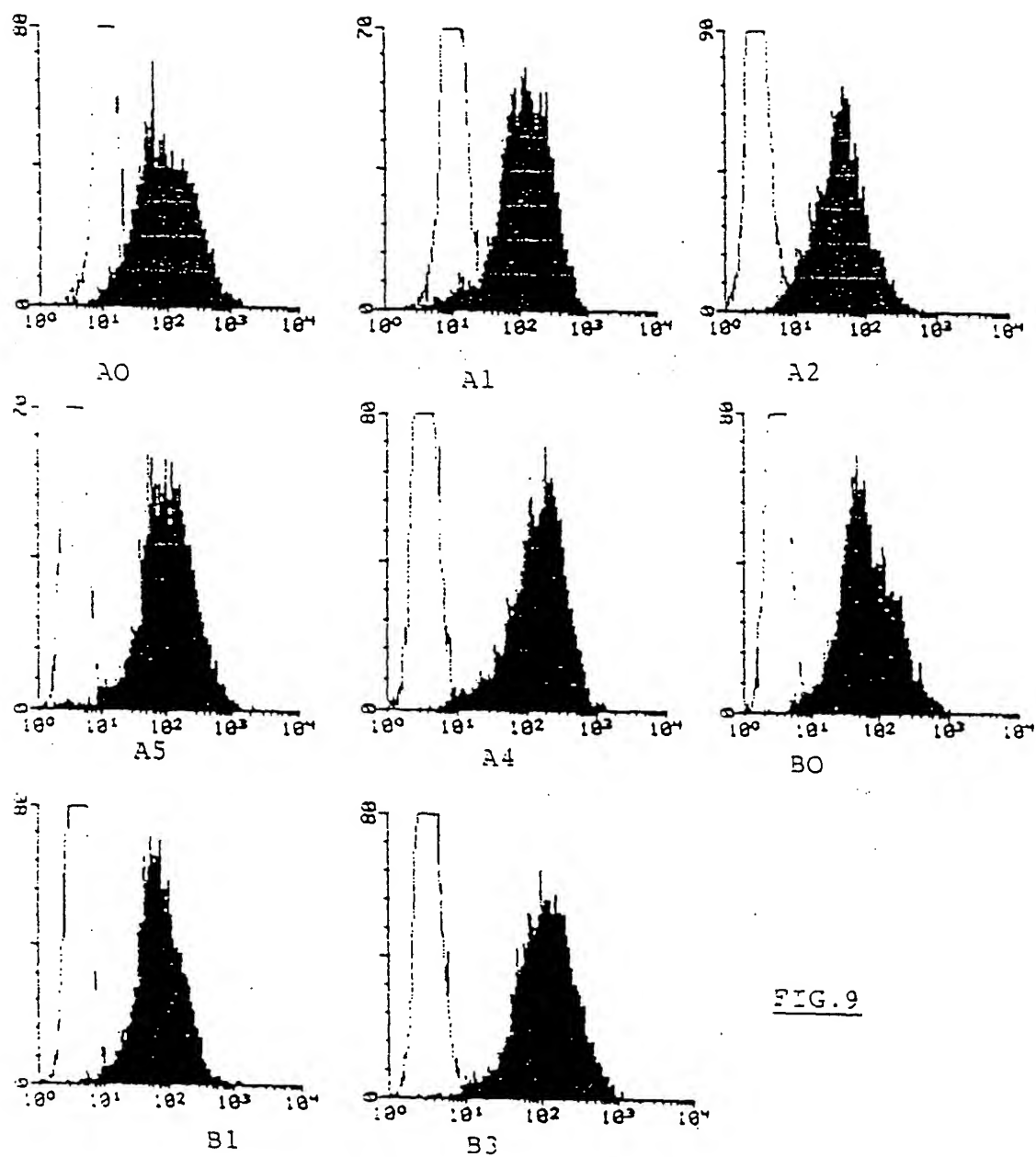
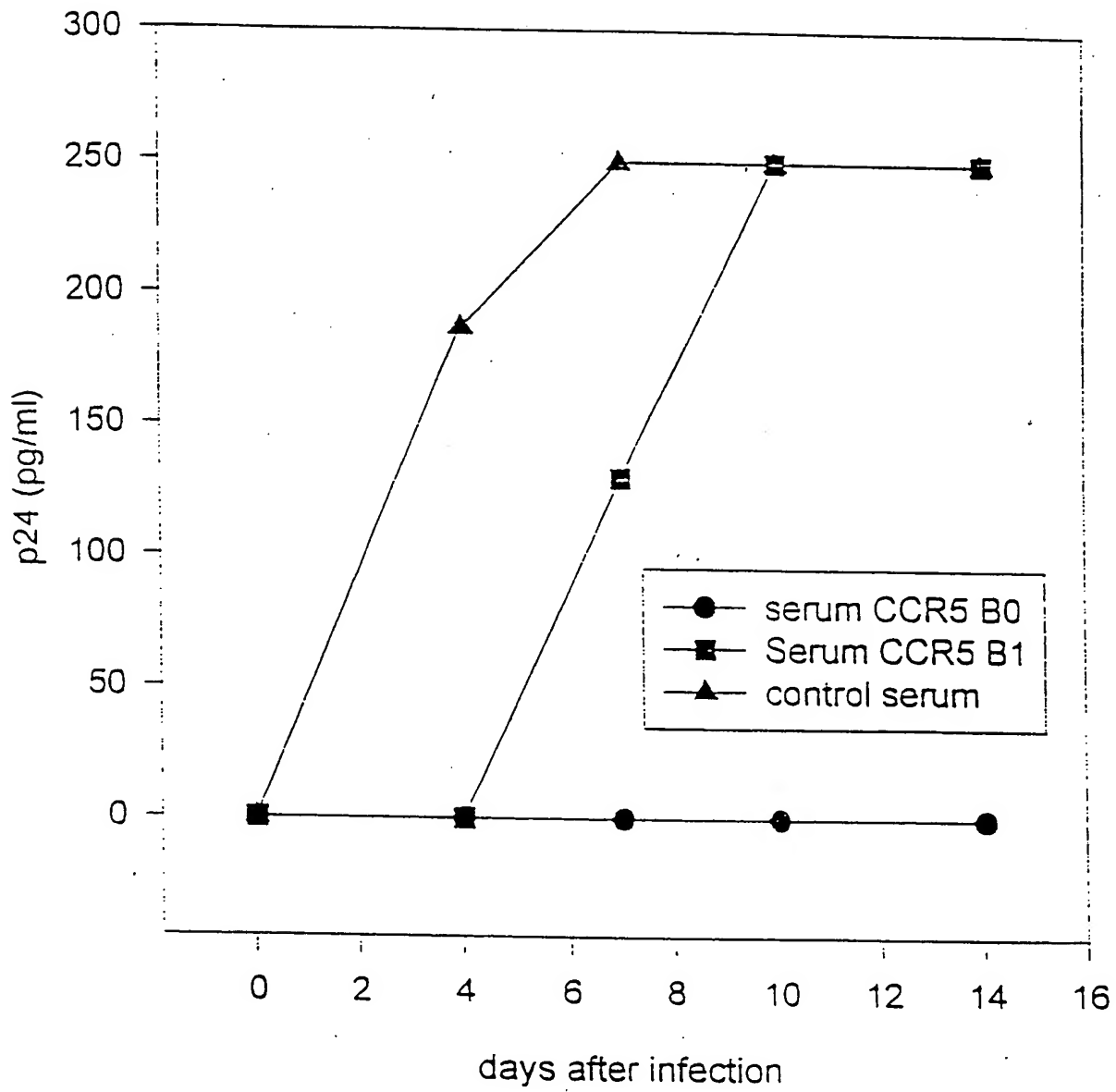


FIG. 8



FIG.10